UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name	Oil Trust Fund
Sample Collection Date(s)	07/02/10 - 07/05/10
Contact	Rich Mayer (6PD-F)
Report Date	07/09/10
Project #	10REG191
Work Order(s)	1007006

Analyses	included	l in	this	report:
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LC DOSS

Report Narrative

BOG0604 MSD1 (source 1007006-06) result for DOSS was outside of QC limit; the MS value for this sample was acceptable. The errant MSD value is thought to be due to a lab spiking error. DOSS was not reported in the sample itself.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:	
Richard McMillin Region 6 Laboratory Manager	David Neleigh Region 6 Laboratory Branch Chief

THITED STATES

Please provide a reason for holding:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund	Project Number: 10REG191				
Data Management Coordinator: Christy Warren	/ /				
Data Management Coordinator Signature	Date				
Date Transmitted:/					
Please have the U.S. EPA Project Manager/Office comments or questions.	er call the Data Management Coordinator at 3-2137 for any				
Please sign and date this form below and return it	with any comments to:				
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS					
Received by and Date					
Comments:					
The laboratory routinely disposes of samples 90 disposes and these samples in custody longer than 90 days	days after all analyses have been completed. If you have a need to s, please sign below.				
Signature	Date				



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T001-1001-100704-SW-1	1007006-01	Liquid	7/4/10 9:15	07/06/10 09:45
T001-1001-100704-SW-D	1007006-02	Liquid	7/4/10 9:15	07/06/10 09:45
T001-1002-100704-SW-1	1007006-03	Liquid	7/4/10 10:15	07/06/10 09:45
T001-1003-100704-SW-1	1007006-04	Liquid	7/4/10 11:00	07/06/10 09:45
T001-2001-100705-SW-1	1007006-05	Liquid	7/5/10 12:00	07/06/10 09:45
T001-2002-100705-SW-1	1007006-06	Liquid	7/5/10 10:35	07/06/10 09:45
T001-2003-100705-SW-1	1007006-07	Liquid	7/5/10 9:46	07/06/10 09:45
T001-2414-100704-SW-1	1007006-08	Liquid	7/4/10 8:25	07/06/10 09:45
T001-2415-100702-SW-1	1007006-09	Liquid	7/2/10 12:20	07/06/10 09:45
T001-SW01-100702-SW-1	1007006-10	Liquid	7/2/10 11:40	07/06/10 09:45
T001-SW02-100702-SW-1	1007006-11	Liquid	7/2/10 10:56	07/06/10 09:45
T001-SW03-100702-SW-1	1007006-12	Liquid	7/2/10 10:15	07/06/10 09:45
T007-0005-100703-SW-1	1007006-13	Liquid	7/3/10 9:30	07/06/10 09:45
T007-0006-100703-SW-1	1007006-14	Liquid	7/3/10 10:10	07/06/10 09:45
T007-0007-100703-SW-1	1007006-15	Liquid	7/3/10 10:45	07/06/10 09:45
T007-0008-100702-SW-1	1007006-16	Liquid	7/2/10 9:20	07/06/10 09:45
T007-0008-100705-SW-1	1007006-17	Liquid	7/5/10 12:40	07/06/10 09:45
T007-1327-100704-SW-1	1007006-18	Liquid	7/4/10 10:00	07/06/10 09:45
T007-1328-100702-SW-1	1007006-19	Liquid	7/2/10 10:40	07/06/10 09:45
T007-1328-100705-SW-1	1007006-20	Liquid	7/5/10 11:15	07/06/10 09:45
T007-1331-100704-SW-1	1007006-21	Liquid	7/4/10 8:55	07/06/10 09:45
T007-1332-100702-SW-1	1007006-22	Liquid	7/2/10 10:00	07/06/10 09:45
T007-1332-100705-SW-1	1007006-23	Liquid	7/5/10 12:05	07/06/10 09:45
T007-2336-100704-SW-1	1007006-24	Liquid	7/4/10 9:30	07/06/10 09:45
T007-BG01-100703-SW-1	1007006-25	Liquid	7/3/10 15:15	07/06/10 09:45
T007-BG02-100704-SW-1	1007006-26	Liquid	7/4/10 13:20	07/06/10 09:45
T007-BG03-100705-SW-1	1007006-27	Liquid	7/5/10 8:50	07/06/10 09:45
T007-BG03-100705-SW-2	1007006-28	Liquid	7/5/10 8:50	07/06/10 09:45
T007-BG06-100702-SW-1	1007006-29	Liquid	7/2/10 15:40	07/06/10 09:45
T005-2339-100702-SW-1	1007006-30	Liquid	7/2/10 8:50	07/06/10 09:45
T005-1336-100703-SW-1	1007006-31	Liquid	7/3/10 8:45	07/06/10 09:45
T005-2333-100703-SW-1	1007006-32	Liquid	7/3/10 9:25	07/06/10 09:45
T005-2333-100703-SW-2	1007006-33	Liquid	7/3/10 9:25	07/06/10 09:45
T005-2337-100703-SW-1	1007006-34	Liquid	7/3/10 10:00	07/06/10 09:45
T005-1333-100704-SW-1	1007006-35	Liquid	7/4/10 8:35	07/06/10 09:45

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T005-2327-100704-SW-1	1007006-36	Liquid	7/4/10 10:00	07/06/10 09:45
T005-2327-100704-SW-2	1007006-37	Liquid	7/4/10 10:00	07/06/10 09:45
T005-2331-100704-SW-1	1007006-38	Liquid	7/4/10 9:20	07/06/10 09:45
T005-2338-100704-SW-1	1007006-39	Liquid	7/4/10 10:40	07/06/10 09:45
T005-2335-100705-SW-1	1007006-40	Liquid	7/5/10 10:20	07/06/10 09:45
T005-2339-100705-SW-1	1007006-41	Liquid	7/5/10 10:50	07/06/10 09:45
T005-2335-100702-SW-1	1007006-42	Liquid	7/2/10 9:35	07/06/10 09:45

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-01 Station ID: T001-100704-SW-1

Batch: B0G0604 Date Collected: 07/04/10 Sample Type: Liquid Sample Volume: 36 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	195	T4	95.1	70-130	07/06/10	07/06/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-02 Station ID: T001-1001-100704-SW-D

Batch: B0G0604 Date Collected: 07/04/10 Sample Volume: 32 ml Sample Type: Liquid

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	249		108	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-03

Batch: B0G0604 Date Collected: 07/04/10 Sample Volume: 33 ml Sample Type: Liquid

Sample Qualifiers:

Station ID: T001-1002-100704-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared A	Analyzed
Surr: DOSS-D34	260		116	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared .	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10	07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-04

Batch: B0G0604 Date Collected: 07/04/10 Sample Volume: 27 ml Sample Type: Liquid

Sample Qualifiers:

Station ID: T001-1003-100704-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	284		104	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-05

Batch: B0G0604 Sample Type: Liquid Date Collected: 07/05/10 Sample Volume: 33 ml

Sample Qualifiers:

Station ID: T001-2001-100705-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	225		100	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10 07/06/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1007006-06

Batch: B0G0604 Sample Type: Liquid Date Collected: 07/05/10 Sample Volume: 31 ml

Sample Qualifiers:

Station ID: T001-2002-100705-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyze
Surr: DOSS-D34	195		81.8	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyze
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-07

Batch: B0G0604 Sample Type: Liquid **Station ID: T001-2003-100705-SW-1**Date Collected: 07/05/10

Sample Volume: 36 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	215		104	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate sodium salt (577-11-7)	IJ		19 7	1	07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-08

Batch: B0G0604 Date Collected: 07/04/10 Sample Volume: 32 ml Sample Type: Liquid

Sample Qualifiers:

Station ID: T001-2414-100704-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	230		99.3	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10	07/06/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1007006-09

Batch: B0G0604 Sample Type: Liquid Date Collected: 07/02/10 Sample Volume: 36 ml

Sample Qualifiers:

Station ID: T001-2415-100702-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	214		104	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10	07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-10

Batch: B0G0604 Sample Type: Liquid Station ID: T001-SW01-100702-SW-1

Date Collected: 07/02/10 Sample Volume: 28 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	270		102	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-11

Batch: B0G0604 Sample Type: Liquid Station ID: T001-SW02-100702-SW-1

Date Collected: 07/02/10 Sample Volume: 32 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	246		106	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10	07/06/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1007006-12

Batch: B0G0604 Sample Type: Liquid 7/02/10

Station ID: T001-SW03-100702-SW-1

Date Collected: 07/02/10 Sample Volume: 34 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	234		107	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.7	1	07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-13

Batch: B0G0604 Sample Type: Liquid Station ID: T007-0005-100703-SW-1

Date Collected: 07/03/10 Sample Volume: 18 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	356		86.6	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10	07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-14

Batch: B0G0604 Sample Type: Liquid **Station ID: T007-0006-100703-SW-1**Date Collected: 07/03/10

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	326		88.2	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	; Dilution	Prepared Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 19.5 1 07/06/10 07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-15

Batch: B0G0604 Sample Type: Liquid **Station ID: T007-0007-100703-SW-1**Date Collected: 07/03/10

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared A	Analyzed
Surr: DOSS-D34	377		102	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	07/06/10	07/06/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-16

Batch: B0G0604 Sample Type: Liquid Station ID:

Station ID: T007-0008-100702-SW-1

Date Collected: 07/02/10 Sample Volume: 25 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	278		94.0	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-17

Batch: B0G0604 Sample Type: Liquid Station ID: T007-0008-100705-SW-1

Date Collected: 07/05/10 Sample Volume: 25 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	259		87.6	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

1007006-18 Lab ID:

Batch: B0G0604 Sample Type: Liquid

Station ID: T007-1327-100704-SW-1 Date Collected: 07/04/10 Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	345		112	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit		Prepared	Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) 20.0 07/06/10 07/06/10 U

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-19

Batch: B0G0604 Sample Type: Liquid

Station ID: T007-1328-100702-SW-1 Date Collected: 07/02/10

Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	352		105	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-20

Batch: B0G0604 Sample Type: Liquid **Station ID: T007-1328-100705-SW-1**Date Collected: 07/05/10

Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	331		98.5	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	S Dilution	Prepared	Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 1 07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-21

Batch: B0G0604 Sample Type: Liquid Station ID: T007-1331-100704-SW-1

Date Collected: 07/04/10 Sample Volume: 17 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	443		102	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.4	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-22 Station ID: T007-1332-100702-SW-1

Batch: B0G0604 Date Collected: 07/02/10 Sample Volume: 23 ml Sample Type: Liquid

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	316		98.1	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

1007006-23 Station ID: T007-1332-100705-SW-1 Lab ID:

Batch: B0G0604 Date Collected: 07/05/10 Sample Volume: 21 ml Sample Type: Liquid

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	341		96.7	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

1007006-24 Lab ID:

Batch: B0G0604 Sample Type: Liquid

Station ID: T007-2336-100704-SW-1

Date Collected: 07/04/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared A	Analyzed
Surr: DOSS-D34	284		88.2	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-25

Batch: B0G0604 Sample Type: Liquid Station ID: T007-BG01-100703-SW-1

Date Collected: 07/03/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	312		96.9	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-26

Batch: B0G0604 Sample Type: Liquid

Station ID: T007-BG02-100704-SW-1

Date Collected: 07/04/10 Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	327		97.2	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-27

Batch: B0G0604 Sample Type: Liquid Station ID: T007-BG03-100705-SW-1

Date Collected: 07/05/10 Sample Volume: 25 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	296		100	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-28

Batch: B0G0604 Sample Type: Liquid Station ID: T007-BG03-100705-SW-2

Date Collected: 07/05/10 Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	377		102	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-29

Dioctyl sulfosuccinate, sodium salt (577-11-7)

Batch: B0G0604 Sample Type: Liquid Station ID: T007-BG06-100702-SW-1

19.6

Date Collected: 07/02/10 Sample Volume: 23 ml Sample Qualifiers:

1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	298		92.6	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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07/06/10 07/06/10



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-30

Batch: B0G0604 Sample Type: Liquid

Station ID: T005-2339-100702-SW-1 Date Collected: 07/02/10

Sample Volume: 42 ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared .	Analyzed
Surr: DOSS-D34	169		95.9	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result	Analyte	Reporting		Dranarad	Analyzad

Limit Dilution Prepared Analyzed μg/I U 19.8 07/06/10 07/06/10

Dioctyl sulfosuccinate, sodium salt (577-11-7) 1

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-31

Batch: B0G0604 Sample Type: Liquid Station ID: T005-1336-100703-SW-1

Date Collected: 07/03/10 Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	167		94.7	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-32

Batch: B0G0604 Date Collected: 07/03/10 Sample Type: Liquid Sample Volume: 43 ml

Sample Qualifiers:

Station ID: T005-2333-100703-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared An	alyzed
Surr: DOSS-D34	173		100	70-130	07/06/10 07	/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared An	alyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10 07	/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-33

Batch: B0G0604 Date Collected: 07/03/10 Sample Type: Liquid Sample Volume: 43 ml

Sample Qualifiers:

Station ID: T005-2333-100703-SW-2

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analy	yzed
Surr: DOSS-D34	158		91.8	70-130	07/06/10 07/0	5/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Anal	yzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10 07/0	5/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-34

Batch: B0G0604 Sample Type: Liquid **Station ID: T005-2337-100703-SW-1**Date Collected: 07/03/10

Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	168		95.5	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-35

Batch: B0G0604 Sample Type: Liquid Station ID: T005-1333-100704-SW-1

Date Collected: 07/04/10 Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	170		96.5	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-36

Batch: B0G0604 Sample Type: Liquid **Station ID: T005-2327-100704-SW-1**Date Collected: 07/04/10

Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers		%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	188		107	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-37

Batch: B0G0604 Sample Type: Liquid Station ID: T005-2327-100704-SW-2

Date Collected: 07/04/10 Sample Volume: 43 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	184		107	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

Report Name: 1007006 FINAL 07 09 10 0803

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-38

Batch: B0G0604 Sample Type: Liquid Date Collected: 07/04/10 Sample Volume: 42 ml

Sample Qualifiers:

Station ID: T005-2331-100704-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	146		83.0	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	IJ		19.8	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

Report Name: 1007006 FINAL 07 09 10 0803

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-39

Batch: B0G0604 Sample Type: Liquid **Station ID: T005-2338-100704-SW-1**Date Collected: 07/04/10

Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	166		94.1	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

Report Name: 1007006 FINAL 07 09 10 0803

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-40

Batch: B0G0604 Sample Type: Liquid Date Collected: 07/05/10 Sample Volume: 22 ml

Sample Qualifiers:

Station ID: T005-2335-100705-SW-1

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	335		99.7	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

Report Name: 1007006 FINAL 07 09 10 0803

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-41

Batch: B0G0604 Sample Type: Liquid Station ID: T005-2339-100705-SW-1

Date Collected: 07/05/10 Sample Volume: 25 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	290		98.0	70-130	07/06/10 07/06/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/06/10 07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007006-42 Station ID: T005-2335-100702-SW-1

Batch: B0G0604 Date Collected: 07/02/10 Sample Type: Liquid Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	146		82.6	70-130	07/06/10	07/06/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/06/10	07/06/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G0604 Sample Type: Liquid

Blank (**B0G0604-BLK1**)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result μg/l	Analyte Qualifier	Spike Level	%REC L	REC imits
Surr: DOSS-D34	311		370	84.1 7	0-130

Blank (**B0G0604-BLK1**)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit
Dioctyl sulfosuccinate, sodium	U	20.0

salt

Blank (**B0G0604-BLK2**)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result Analyte	Spike	%REC
	μg/l Qualifier	Level	%REC Limits
Surr: DOSS-D34	346	370	93.5 70-130

Blank (**B0G0604-BLK2**)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

Result Analyte Reporting ANALYTE µg/l Qualifiers Limit
--

Dioctyl sulfosuccinate, sodium salt

U

20.0

Report Name: 1007006 FINAL 07 09 10 0803

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G0604 Sample Type: Liquid

Blank (**B0G0604-BLK3**)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	358		370	96.8	70-130

Blank (**B0G0604-BLK3**)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit
Dioctyl sulfosuccinate, sodium	U	20.0

salt

LCS (B0G0604-BS1)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	348		370	94.0	70-130

LCS (B0G0604-BS1)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit		%REC %REC Limits	
Dioctyl sulfosuccinate, sodium salt	107	20.0	100	107 50-150	

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G0604 Sample Type: Liquid

LCS (B0G0604-BS2)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	370		370	100	70-130

LCS (B0G0604-BS2)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits	
Dioctyl sulfosuccinate, sodium salt	110	20.0	100	110 50-150	

LCS (B0G0604-BS3)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	309		370	83.6	70-130

LCS (B0G0604-BS3)

Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit		%REC %REC Limits	
Dioctyl sulfosuccinate, sodium salt	113	20.0	100	113 50-150	

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G0604 Sample Type: Liquid

Matrix Spike (B0G0604-MS1)

Source: 1007006-06 Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	287		264	109 70-130

Matrix Spike (B0G0604-MS1)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-06

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	
Dioctyl sulfosuccinate, sodium	85.5	19.6	71.4	U	120	50-150	

Matrix Spike (B0G0604-MS2)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-20

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	378		352	107	70-130

Matrix Spike (B0G0604-MS2)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-20

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	
Dioctyl sulfosuccinate, sodium salt	115	20.0	95.2	U	121	50-150	

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G0604 Sample Type: Liquid

Matrix Spike (B0G0604-MS3)

Source: 1007006-40 Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	316		370	85.5 70-130

Matrix Spike (B0G0604-MS3)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-40

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	
Dioctyl sulfosuccinate, sodium salt	110	19.5	100	U	110	50-150	

Matrix Spike Dup (B0G0604-MSD1)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-06

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level %	REC	%REC Limits
Surr: DOSS-D34	302		274	110	70-130

Matrix Spike Dup (B0G0604-MSD1)

Source: 1007006-06 Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit				RPD RPD Limit
Dioctyl sulfosuccinate, sodium salt	131	19.6	74.1	U	177 # 50-150	41.9 # 30

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G0604 Sample Type: Liquid

Matrix Spike Dup (B0G0604-MSD2)

Source: 1007006-20 Prepared: 7/6/2010 Analyzed: 7/6/2010

Surrogates

ANALYTE	Result	Analyte	Spike	%REC
	µg/l	Qualifier	Level	%REC Limits
Surr: DOSS-D34	379		352	108 70-130

Matrix Spike Dup (B0G0604-MSD2)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-20

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium	114	20.0	95.2	U	120	50-150	0.42	30

Matrix Spike Dup (B0G0604-MSD3)

Prepared: 7/6/2010 Analyzed: 7/6/2010 Source: 1007006-40

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	$\mu g/l$	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	364		370	98.5	70-130

Matrix Spike Dup (B0G0604-MSD3)

Source: 1007006-40 Prepared: 7/6/2010 Analyzed: 7/6/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium salt	110	20.0	100	U	110	50-150	0.83	30

Report Name: 1007006 FINAL 07 09 10 0803

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Kristie Warr 713-985-6600 US EPA/Weston Venice, LA	Lab # Sample #	T001-1	T001-1	T001-1	T001-1	T001-2	T001-2	T001-2	T001-2	T001-2	T001-8	T001-S	T001-8		Special Instructions	Items/Reason				
	#	T001-1001-100704-SW-1	T001-1001-100704-SW-D	T001-1002-100704-SW-1	T001-1003-100704-SW-1	T001-2001-100705-SW-1	T001-2002-100705-SW-1	T001-2003-100705-SW-1	T001-2414-100704-SW-1	T001-2415-100702-SW-4	T001-SW01-100702-SW-1	T001-SW02-100702-SW-1	T001-SW03-100702-SW-1		ions:	n Relinquished by	R			
	Analyses	DOSS			Date	7/5/10														
	o.															Received by	Commedia			
CHAIN OF CUSTODY RECORD R06 Deep H2O Horizon Reporting Lab: EPA Houston Lab Lab_State: TX	Matrix	Surface Water			Date	, B														
IN OF CUSTODY RECO	Collecti on Method	- "	Grab	r Grab	Grab	r Grab	r Grab	Grab	r Grab	Glub	r Grab	r Grab	Grab			Time				
RECORD Reporting Lab	Collecti Collected on Method	7/4/2010	7/4/2010	7/4/2010	7/4/2010	7/5/2010	7/5/2010	7/5/2010	7/4/2010	7/2/2010	7/2/2010	7/2/2010	7/2/2010			Items/Reason				
	Sample Time	09:15	09:15	10:15	11:00	12:00	10:35	09:46	08:25	12:20	11:40	10:56	10:15				٧ (١	M	2	2
	Numb Cont	2	2	2	2	2	ග	2	2	2	0	2	2	SAME	CHAI	Relinquished By	the H	The		0
No: T00	Numb Cont Preservativ MS/MS e D	4 C	4 C	4 C			40	40				4 C	40	SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY#	Date	950	2/1/10	7610 1	1-6-107
)01-1004 ab Address	MS/MS D	z	z	z	z	z	~	z	z	z	. ~	z	z	FERRED F	DY#	Received by		5	Carlo	Isaich
No: T0001-100405-07/02/10-0526 Lab Address: 10625 Fallstone Rd Lab_City: Houston Lab_Zip: 77099	Description													ROM		by Date Time	1/4/10 TOR	7612 45	360	7/6/10 9

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS DOSS DOSS DOSS DOSS DOSS DOSS DOSS	Contact Kristi Phone: 713.98 Lab # Sam	Contact Kristle Warr Phone 713 985 6636 Lab # Sample # T007-0005-100703-SW-1	Analyses Doss	ωωσ	CHAIN O R06_D R06_D Matrix Surface Wate	CHAIN OF CUSTODY RECO R06_Deepwater_Grand_isl R06_Deep	epwater_Grand_Isle Collection Method Grab Grab	epwater_Grand_Isle Collection Collected Method 7/3/2010 Grab 7/3/2010	epwater_Grand_Isle Collection Collected Sample Time Method 7/3/2010 09:30 Grab 7/3/2010 10:10	epwater_Grand_lsle Collection Collected Sample Time Numb Collection Grab 7/3/2010 09:30 Grab 7/3/2010 10:10
Relinquished by Date Regaived by		T007-0007-100703-SW-1	DOSS	Surface Water	2 2 2		Grab	Grab 7/3/2010	Grab 7/3/2010 10:10 Grab 7/3/2010 10:45	Grab 7/3/2010 10:45 2 Grab 7/3/2010 00:20
1-100702-SW-1		T007-0008-100702-SW-1	DOSS	Surface Water		r Grab		Grab	Grab 7/2/2010 09:20 6 Grab 7/5/2010 12:40 2	Grab 7/2/2010 09:20 Grab 7/5/2010 12:40
## DOSS Surface Wat		T007-1327-100704-SW-1	DOSS	Surface Wate	-	Grab		7/4/2010	7/4/2010 10:00	7/4/2010 10:00
1-100704-SW/1 DOSS Surface Wat		T007-1328-100702-SW-1	DOSS	Surface Water	-14	Grab		7/2/2010	7/2/2010 10:40	7/2/2010 10:40 2
1-100702-SW-1		T007-1328-100705-SW-1	DOSS	Surface Wate	-	Grab		7/5/2010	7/5/2010 11:15	7/5/2010 11:15 6
### DOSS Surface Was #### DOSS Surface Was #### DOSS Surface Was #### DOSS Surface Was ##### DOSS Surface Was ####################################		T007-1331-100704-SW-1	DOSS	Surface Wate	-	Grab		7/4/2010	7/4/2010 08:55 6	7/4/2010 08:55 6
3-100703-SW-1 DOSS Surface Wat 2-100703-SW-1 DOSS Surface Wat 2-100704-SW-1 DOSS Surface Wat 3-100705-SW-2 DOSS Surface Wat 3-100705-SW-2 DOSS Surface Wat 6-100702-SW-1 DOSS Surface Wat 5-100702-SW-1 DOSS Surface Wat		T007-1332-100702-SW-1	DOSS	Surface Wate		Grab	Grab 7/5/2010		7/2/2010 10:00 2 7/5/2010 12:05 2	7/2/2010 10:00 7/5/2010 12:05
11-100703-SW-1 DOSS Surface Wal 2-100704-SW-1 DOSS Surface Wal 3-100705-SW-1 DOSS Surface Wal 3-100705-SW-2 DOSS Surface Wal 3-100702-SW-1 DOSS Surface Wal 5-100702-SW-1 Doss Surface Wal		T007-2336-100704-SW-1	DOSS	Surface Water	-	Grab		7/4/2010	7/4/2010 09:30	7/4/2010 09:30 2
2-100704-SW-1 DOSS Surface Wal 3-100705-SW-1 DOSS Surface Wal 3-100705-SW-2 DOSS Surface Wal 5-100702-SW-1 DOSS Surface Wal 5-100702-SW-1 DOSS Surface Wal 5-100702-SW-1 Dost Regioned by Date Re		T007-BG01-100703-SW-1	DOSS	Surface Wate	3	Grab		7/3/2010	7/3/2010 15:15	7/3/2010 15:15
G-100705-SW-1 DOSS Surface Wal- G-100702-SW-1 DOSS Surface Wal		T007-BG02-100704-SW-1	DOSS	Surface Wate		Grab		7/4/2010	7/4/2010 13:20 2	7/4/2010 13:20 2
6-100702-SW-1 DOSS Surface Wa Belinquished by Date Received by Date Received by Date Received by Date Surface Was Date Surfac		T007-BG03-100705-SW-1	DOSS	Surface Wate	-	Grab		7/5/2010	7/5/2010 08:50	7/5/2010 08:50 2
Reimquished by Date Received by Date Reimquished by Date Respond by Date Respond by Date Respond by Date		TOUT BOOK 400700 - W. A	0000	Sufface Water		CIBD		0107/2/7	75/2010 08:50	750000
Reinquished by Date Received by Date 1910		1007-8G06-100702-SW-1	DOSS	Suпасе Wate		Grab	Grab 7/2/2010		712/2010	7/2/2010 15:40
Relinquished by Date Received by Date 190 July 1916 190 State 1	Special	nstructions:						CHAIN C	CHAIN OF CUSTODY#	CHAIN OF CUSTODY#
2000	Items					Time Items/	Items/Reason	Items/Reason Relinquished By	Items/Reason Relinquished By Date	Items/Reason Relinquished By
June	I	Mary S	SW C		8 6	620	200	14.004- H-	51.62 - 1-8-10 HOSA	14.004- H-

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Special Instructions: MS/MSD collected on sample 1865-1935-186143-541 DOSS CHAIN OF CUSTODY RECORD ontact Phone: 713-985-6636 Contact Name: Kristie Warr Time 08:50 SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY # Numb Cont Container No: T0033-100402-20100702-001 Lab: U.S. EPA Region 6 Laboratory 2 40-1-104 4C 6 40 ml VOA Lab Phone: 281-983-2137

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

Special Instructions T005-1336-100703-SW-1 T005-2337-100703-SW-1 T005-2333-100703-SW-2 T005-2333-100703-SW-1 CHAIN OF CUSTODY RECORD
R06_DeepWater_Chalmette Contact Phone: 713-985-6636 Contact Name: Kristie Warr CHAIN OF CUSTODY # SAMPLES TRANSFEHRED FROM Numb Cont Container No: T0033-100402-20100703-003 Lab. U.S. EPA Region 6 Laboratory 2 40 mt VOA 40 ml VOA Sample Jemp=10C

> Report Name: 1007006 FINAL 07 09 10 0803 Page 54 of 57



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Fax:(281)983-2248 Phone:(281)983-2100

	llem	Specia						Lab#	
	Items/Reason Relimquished by	Special Instructions:	T005-2338-100704-SW-1	T005-2331-100704-SW-1	T005-2327-100704-SW-2	T005-2327-100704-SW-1	T005-1333-100704-SW-1	Sample #	
21/2 Many: 1/00 912 415	Date Received by		DOSS	DOSS	DOSS	DOSS	DOSS	Analyses	
	Date Time		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Matrix	CHAIN OF C R06_Deep Contact No Contact Pho
			Grab	Grab	Grab	Grab	Grab	Collection Method	CHAIN OF CUSTODY RECORD R06_DeepWaler_Chalmette Contact Name: Kristle Warr Contact Phone: 713-885-6636
	Items/Reason Re		7/4/2010	7/4/2010	7/4/2010	7/4/2010	7/4/2010	Collected	RD RD
	Relinquished By Date Manh # 7:45	SAN CH <i>I</i>	10:40	09:20	10:00	10:00	08:35	Sample Time	
bany	Received by Aarves	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY#	2 40 ml VOA	Numb Cont Container	No: T0033-100402-20100704-003 AirbillNo Lab: U.S. EPA Region 6 Laboratory Lab Phone: 281-983-2137				
Sample Jemp = 10C	7/6/10 9:45		40	400	40	400 <	4C	Preservative	00402-20100704-003 AirbillNo: EPA Region 6 Laboratory Lab Phone: 281-983-2137

Report Name: 1007006 FINAL 07 09 10 0803 Page 55 of 57



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248



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Region 6 Laboratory

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Notes and Definitions

Α This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

Undetected U

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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